

Kremen-1 (H-48): sc-99034

BACKGROUND

The Wnt genes are a group of well conserved, cysteine-rich secreted glycoproteins that are required for numerous developmental processes including embryogenesis, asymmetric cell division and central nervous system (CNS) patterning. The association of the Wnt protein with the seven membrane spanning receptor frizzled activates dishevelled, which downregulates glycogen synthase kinase (GSK) through serine phosphorylation. Reduced levels of active GSK causes the accumulation of β -catenin and subsequent regulation of developmentally significant Wnt target genes. Wnt antagonists, Dickkopf (which includes Dkk1-4), frizzled-related protein (sFRP), Soggy-1, Kremen-1 and Wnt inhibitory factor-1 (WIF-1) are necessary to ensure normal spatial and temporal patterns of Wnt activity during developmental processes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KREMEN1 (human) mapping to 22q12.1; Kremen1 (mouse) mapping to 11 A1.

SOURCE

Kremen-1 (H-48) is a rabbit polyclonal antibody raised against amino acids 265-312 mapping within an internal region of Kremen-1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Kremen-1 (H-48) is recommended for detection of Kremen-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Kremen-1 (H-48) is also recommended for detection of Kremen-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Kremen-1 siRNA (h): sc-60899, Kremen-1 siRNA (m): sc-60900, Kremen-1 shRNA Plasmid (h): sc-60899-SH, Kremen-1 shRNA Plasmid (m): sc-60900-SH, Kremen-1 shRNA (h) Lentiviral Particles: sc-60899-V and Kremen-1 shRNA (m) Lentiviral Particles: sc-60900-V.

Molecular Weight of Kremen-1: 52 kDa.

Positive Controls: Daudi + IFN- α cell lysate: sc-2266.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **Kremen-1 (R17-2): sc-74206**, our highly recommended monoclonal alternative to Kremen-1 (H-48).